UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,535	05/25/2006	Daisuke Kumaki	0756-7707	5741
31780 ERIC ROBINS	7590 11/26/200 <b>ON</b>	EXAMINER		
PMB 955	DANIZ CT	LI, MEIYA		
21010 SOUTHBANK ST. POTOMAC FALLS, VA 20165			ART UNIT	PAPER NUMBER
			2811	
			MAIL DATE	DELIVERY MODE
			11/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
		Applicant(s)					
Office Action Summary	10/009,852	PAPADOPOULOS ET AL.					
omoo riodon odiniidiy	Examiner	Art Unit					
The MAILING DATE of this communication and	Rachel K. Hunnicutt	1647					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 30 August 2004.							
· _ · _ ·							
·							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
<ul> <li>4) ☐ Claim(s) 92-131 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>							
5) Claim(s) is/are allowed.	William Consideration.						
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
· _ · · · · · · · · · · · · · · · · · ·	8) Claim(s) 92-131 are subject to restriction and/or election requirement.						
Application Papers		,					
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date.  5) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date 6) Other:							

Art Unit: 1647

## **DETAILED ACTION**

Applicants' response to the restriction requirement of paper no. 0804 is noted. However, the previous restriction requirement is withdrawn. A new restriction requirement follows below.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 92-100 and 104-108, drawn to isolated nucleic acid molecules encoding an Ig domain 2 of a first VEGF receptor and an Ig domain 3 of a second VEGF receptor and a multimerizing component.

Group 2, claim(s) 101-103, 109-113, 117-122, and 129-130, drawn to fusion polypeptides comprising a VEGF receptor component consisting essentially of an Ig domain 2 of a first VEGF receptor and an Ig domain 3 of a second VEGF receptor and a multimerizing component.

Group 3, claim(s) 114-116 and 131, drawn to methods of inhibiting VEGF activity in a mammal by administering fusion polypeptides.

Group 4, claim(s) 123-128, drawn to methods of producing a fusion polypeptide which specifically binds a target protein.

The inventions listed as Groups 1-4 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Art Unit: 1647

Claim 1 is drawn to an isolated nucleic acid molecule encoding a VEGF receptor component consisting essentially of an Ig domain 2 of a first VEGF receptor and an Ig domain 3 of a second VEGF receptor, and a multimerizing component. Davis-Smyth et al. (U.S. Patent No. 6,100,071) teach nucleic acid molecules encoding chimeric VEGF receptor proteins. The proteins may comprise the Ig domain 2 of flt-1 (VEGFR-1) and the Ig domain 3 of KDR (VEGFR-2) and a multimerizing component such as an immunoglobulin or fragment thereof (see claims 9, 10, and 14). Thus, the nucleic acid molecule of claim 1 is not considered to be a special technical feature. Accordingly, there is no special technical feature linking Groups 1-4 under PCT Rule 13.1.

Group 2 recites the technical feature of fusion polypeptides. The technical feature of fusion polypeptides is not required by the products of Group 1.

Group 3 recites the technical feature of administering fusion polypeptides to inhibit VEGF activity. The technical feature of administering fusion polypeptides is not required by the methods of Group 4.

Group 4 recites the technical feature of producing fusion polypeptides. The technical feature of producing fusion polypeptides is not required by the methods of Group 3.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

If Group 1 is elected, the species are SEQ ID NOS: 3, 5, 7, 9, 11, 13, and 15.

If Group 2 is elected, the species are SEQ ID NOS: 12 and 16.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Art Unit: 1647

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

The nucleic acid molecules are structurally unrelated, each to each other. The nucleic acid molecules are not sufficiently linked by structural or functional features.

The polypeptides are structurally unrelated, each to each other. The polypeptides are not sufficiently linked by structural or functional features.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the

Art Unit: 1647

patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Page 5

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** 

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rachel K. Hunnicutt whose telephone number is (571) 272-0886. The examiner can normally be reached on Mon-Fri 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

JANET ANDRES
PRIMARY EXAMINER

Art Unit: 1647

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RKH 11/22/04

PRIMARY EXAMINER